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Compsns. for use e.g. as mouth-wash etc. - contg. organic extract of
e.g., allspice, celery and oregano

Patent Assignee: LION CORP (LIOY)

Number of Countries: 001 Number of Patents: 002

Patent Family:

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| JP 57056416 | A | 19820405 | JP 80131123 | A | 19800920 | 198219 B |
| JP 87058327 | B | 19871205 | | | | 198801 |

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Patent Details:

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| JP 57056416 | A | | 5 | | |

Abstract (Basic): JP 57056416 A

Compsns. used in the mouth contain an extract or extracts of spices selected from allspice, celery and oregano with organic solvent.

Spices may be extd. with a lower alcohol (e.g. MeOH, EtOH,), polar solvent (e.g. Me₂CO, Et₂O, EtOAc) or nonpolar solvent (e.g. benzene, hexane, petroleum ether) or a mixt. of them.

In an example MeOH was added to dry powdered allspice, and the mixt. was refluxed on a water bath (70-80 deg.C) for 1 hr. The MeOH extract was filtered, and the residue reextracted twice with MeOH. The combined extracts were evapd. in vacuo to give a paste. MIC (%) of each MeOH extract of spices against F.n. (under anaerobic condition (80% N₂, 10% H₂ and 10% CO₂) at 37 deg.C for 2 days) was allspice 0.05%; celery 0.05%; oregano 0.05%. The extracts may be contained in the compsn. at a rate of 0.001-5 (pref. 0.005-1) wt.%.

The extracts of spices have a potent antimicrobial action in small doses, esp. against intrabuccal bacterium *Fusobacterium nucleatum* (F.n.) which produces indole, H₂S, mercaptan, etc. causing stomatodysodia or periodontosis, and may be added to tooth-powder or paste, mouthwash, toothpaste, troaches, chewinggum, tablets for gargling etc.

Derwent Class: B04; D21

International Patent Class (Additional): A61K-007/16; A61K-035/78